

## INTERNATIONAL SEARCH REPORT

PCT/93/04970

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C01B7/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 542 961 A (CHERNIAVSKY ALEXANDER J ET AL) 20 February 1951 (1951-02-20) column 7, line 55 -column 8, line 22 figure ---	1-5
X	US 5 639 436 A (BENSON SIDNEY W ET AL) 17 June 1997 (1997-06-17) column 1, line 34 -column 2, line 4 column 2, line 34 - line 47 column 3, line 1 -column 4, line 22 figure 3 ---	1-5,8,9
X	US 3 201 201 A (DIJK CHRISTIAAN P VAN ET AL) 17 August 1965 (1965-08-17) column 6, line 4 - line 14 figure ---	1-4
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

26 August 2003

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16/09/2003

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## INTERNATIONAL SEARCH REPORT

PCT 03/04970

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 046 313 A (SHELL INT RESEARCH) 19 October 1966 (1966-10-19) cited in the application page 2, line 26 - line 62	1,3-6
X	US 4 828 815 A (KIYOURA TADAMITSU ET AL) 9 May 1989 (1989-05-09) column 2, line 8 - line 20	1,3-5

## INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/JP 03/04970

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2542961	A	20-02-1951	NONE	
US 5639436	A	17-06-1997	AU 7249096 A CA 2232598 A1 DE 69612009 D1 DE 69612009 T2 EP 0851834 A1 ES 2157010 T3 JP 11511433 T NO 981288 A PL 325836 A1 PT 851834 T WO 9711026 A1	09-04-1997 27-03-1997 12-04-2001 25-10-2001 08-07-1998 01-08-2001 05-10-1999 20-05-1998 03-08-1998 30-08-2001 27-03-1997
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